

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A process ~~Process~~ for producing a plastics article from a plastic obtainable via free-radical polymerization with inorganic coating on one or more sides via the following ~~process steps~~:

a) using doctoring, flow coating, or immersion to coat a substrate with a lacquer composition in which a silicon-based adhesion promoter and inorganic particles are present in a ratio of from 1:9 to 9:1 in a solvent which, where appropriate, may also comprise flow control agent[[,]];

b) drying the lacquer composition on the substrate, thus obtaining the coated substrate[[,]];

c) using one or more substrates thus coated to construct a polymerization cell, where the coated sides are in the interior of the cell[[,]];

d) charging a polymerizable liquid composed of monomers capable of free-radical polymerization, where appropriate with polymeric content, to the polymerization cell[[,]];

e) free-radical polymerization of the polymerizable liquid in the presence of a polymerization initiator, whereupon the internal inorganic coating transfers from the substrate into or onto the surfaces of the free-radical-polymerized plastic or of the plastics article[[,]]; and

f) removing the coated plastics article with inorganic coating on one or more sides from the polymerization cell.

Claim 2 (Currently Amended): The process ~~Process~~ according to Claim 1,
~~characterized in that~~ wherein the plastics article has the shape of a flat sheet.

Claim 3 (Currently Amended): The process ~~Process~~ according to Claim 1 ~~or 2~~,
~~characterized in that~~ wherein the plastic obtainable via free-radical polymerization is a
polymethyl methacrylate or a polystyrene.

Claim 4 (Currently Amended): The process ~~Process~~ according to ~~one or more of~~
~~Claims 1 to 3~~ Claim 1, ~~characterized in that~~ wherein the adhesion promoter is composed of a
colloidal solution of SiO₂ particles or of silane condensates.

Claim 5 (Currently Amended): The process ~~Process~~ according to ~~one or more of~~
~~Claims 1 to 4~~, ~~characterized in that~~ Claim 1, wherein the lacquer composition comprises from
1 to 2% by weight of SiO₂ particles and from 2.5 to 7.5% by weight of antimony tin oxide
particles in water as solvent.

Claim 6 (Currently Amended): The process ~~Process~~ according to Claim 5,
~~characterized in that~~ wherein the lacquer composition ~~also~~ further comprises a surfactant or a
mixture of surfactants as flow control agent.

Claim 7 (Currently Amended): The process ~~Process~~ according to ~~one or more of~~
~~Claims 1 to 6~~, ~~characterized in that~~ Claim 1, wherein the substrate be coated is a glass sheet, a
plastics sheet, or a plastics film.

Claim 8 (Currently Amended): The process ~~Process~~ according to Claim 7, ~~characterized in that~~ wherein the plastics sheet or a plastics film is composed of polyethylene terephthalate.

Claim 9 (Currently Amended): The process ~~Process~~ according to ~~one or more of Claims 1 to 8, characterized in that~~ Claim 1, wherein the substrate is dried with the lacquer composition at a temperature in the range from 80 to 120°C.

Claim 10 (Currently Amended): The process ~~Process~~ according to ~~one or more of Claims 1 to 9, characterized in that~~ Claim 1, wherein the polymerizable liquid is polymerized at from 40 to 80°C.

Claim 11 (Currently Amended): The process ~~Process~~ according to ~~one or more of Claims 1 to 10, characterized in that~~ Claim 1, wherein use is made of a polymerization cell in essence consisting of two sheets with peripheral sealing bead.

Claim 12 (Currently Amended): The process ~~Process~~ according to ~~one or more of Claims 1 to 11, characterized in that~~ Claim 1, wherein a sheet of polymethyl methacrylate plastic is produced with an electrically conductive coating on one or two sides.

Claim 13 (Currently Amended): A plastics article obtained ~~Plastics articles obtainable~~ by a process according to ~~one or more of Claims 1 to 12~~ Claim 1.

Claim 14 (Currently Amended): ~~The plastics~~ Plastics article according to Claim 13, ~~characterized in that it~~ wherein the article has an electrically conductive coating with a surface resistance smaller than or equal to $10^{10} \Omega$.

Claim 15 (Currently Amended): ~~The plastics~~ Plastics article according to Claim ~~12 or~~ 13, ~~characterized in that~~ wherein the layer thickness of the electrically conductive coating is in the range from 200 to 5000 nm.

Claim 16 (Currently Amended): ~~The plastics article~~ Plastics according to ~~one or more~~ of Claims 12 to 15, ~~characterized in that the~~ Claim 12, wherein a scrub resistance of the inorganically coated surface to DIN 53 778 is at least 10 000 cycles.

Claim 17 (Currently Amended): ~~Use of the plastics article according to one or more~~ of Claims 11 to 16 A plastics article for encasing structures, for equipping cleanrooms, for machine covers, for incubators, for displays, for visual display screens and visual-display-screen covers, for rear-projection screens, for medical apparatus, or for electrical devices comprising the plastics article of Claim 13.